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Cryptographic key **split** combiner

US Pat. 6542608 - Filed Jul 31, 2001 - TecSec Incorporated

The cryptographic key combiner of claim 17, wherein said plurality of key **split** generators further includes a **biometric split** generator for generating a ...

Method and apparatus for recognizing identity of individuals employing ...

US Pat. 6219639 - Filed Apr 28, 1998 - International Business Machines Corporation

The apparatus corresponding to the same **segmentation** unit, includes an extractor for extracting a **biometric** attribute 5 Thus, for example, if an individual ...

Cryptographic key **split** combiner

US Pat. 6885747 - Filed Feb 13, 1998 - Tec. Sec, Inc.

The **biometric split** 38 is generated from **biometric** data vectors 58 provided by ... The **biometric split** 38 provides information that is incapable of being ...

Apparatus and method for expandable **biometric** searching

US Pat. 6047282 - Filed Dec 5, 1997 - AuthenTec, Inc.

The entries in the node are then divided or **split** along the mean value which was ... Each of the **biometric** records 12 preferably includes at least one ...

Cryptographic key **split** combiner

US Pat. 6549623 - Filed Feb 4, 2002 - TecSec, Incorporated

Further, a **biometric split** may be to the communication is valid. ... The TU. i it i/r • j • jfu • i token **split** and the **biometric split** may be combined with ...

Method and apparatus for expandable **biometric** searching

US Pat. 6070159 - Filed Dec 5, 1997 - AuthenTec, Inc.

Preferably for this **split**, once this **split** line has been drawn based upon the ... Each of the **biometric** records preferably includes at least one **biometric** ...

Cryptographic key **split** combiner

US Pat. 6606386 - Filed Jul 31, 2001 - TecSec INC

30 The **biometric split** 38 is generated from **biometric** data vectors 58 provided by ... The **biometric split** 38 provides information that is incapable of being ...

Method and apparatus for expandable **biometric** searching

US Pat. 6047281 - Filed Dec 5, 1997 - AuthenTec, Inc.

It will be understood by those skilled in the 5 art that **biometric** records ... The entries in the node are then divided or **split** along the mean value which ...

Cryptographic key **split** combiner

US Pat. 6608901 - Filed Jul 31, 2001 - TecSec, Inc.

The **biometric split** 38 is generated from **biometric** data vectors 58 provided by

... The **biometric split** 38 provides 45 information that is incapable of being ...

Tokenless **biometric** ATM access system

US Pat. 6154879 - Filed Feb 5, 1999 - SmartTouch, Inc.

After a threshold number of biometrics are assigned, the giant **biometric** group is **split** in two. Thereafter, this process is applied to all succeeding ...



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Tokenless **biometric** transaction authorization system

US Pat. 5838812 - Filed Jul 25, 1996 - SmartTouch, LLC

40 Automated Teller Machinery; uses encoded **biometric** identity ... **combine biometric** registration information with an individual-selected PIN and selected ...

System, method and computer program product for allowing access to ...

US Pat. 6256737 - Filed Mar 9, 1999 - BioNetrix Systems Corporation

As will be shown later, the flexibility of the open interface enables administrators to **combine biometric** devices via **biometric** policies for the ...

Tokenless identification system for authorization of electronic transactions ...

US Pat. 5613012 - Filed May 17, 1995 - Smarttouch, LLC.

BIA: 15 **Biometric** input apparatus; collects **biometric** identity ... **combine biometric** registration information with an individual-selected PIN and selected ...

Tokenless security system for authorizing access to a secured computer system

US Pat. 5615277 - Filed Nov 28, 1994

In a variation on the use of a personal code, the comparison means of the security system may be modified to **combine biometric** sample-personal code pairs to ...

Method and apparatus for histological and physiological **biometric** operation ...

US Pat. 6483929 - Filed Aug 18, 2000 - Tarian LLC

30 Some **biometric** authentication systems **combine biometric** measurements with conditions behavior such as signature writing styles and voice patterns or ...

Tokenless identification of individuals

US Pat. 5805719 - Filed Mar 18, 1997 - SmartTouch

40 BIA **Biometric** input apparatus; collects **biometric** identity information ... **combine biometric** registration information with an individual-selected PIN and ...

Cryptographic key **split** combiner

US Pat. 6542608 - Filed Jul 31, 2001 - TecSec Incorporated

The cryptographic key combiner of claim 17, wherein said plurality of key **split** generators further includes a **biometric split** generator for generating a ...

System and method for authenticating electronic transactions using **biometric** ...

US Pat. 6202151 - Filed Dec 31, 1997 - GTE Service Corporation

The system of claim 1, wherein the electronic transaction generator includes: a concatenator configured to **combine** the **biometric** digital signature and the ...

Method and apparatus for recognizing identity of individuals employing ...

US Pat. 6219639 - Filed Apr 28, 1998 - International Business Machines Corporation

It is another object of the present invention to provide methods and apparatus

for recognizing individuals that **combine** and synchronize **biometric** and/or ...

Cryptographic key **split** combiner

US Pat. 6885747 - Filed Feb 13, 1998 - Tec.Sec, Inc.

The **biometric split** 38 is generated from **biometric** data vectors 58 provided by

... The **biometric split** 38 provides information that is incapable of being ...

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Relevance scale

1 [Response to "Problems with DCE security services"](#)



Walter Tuvell

April 1996 **ACM SIGCOMM Computer Communication Review**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(1.01 MB) Additional Information: [full citation](#), [index terms](#)

2 [Making computers disappear: appliance data services](#)



Andrew C. Huang, Benjamin C. Ling, John Barton, Armando Fox

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking MobiCom '01**

Publisher: ACM Press

Full text available: pdf(691.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital appliances designed to simplify everyday tasks are readily available to end consumers. For example, mobile users can retrieve Web content using handheld devices since content retrieval is well-supported by infrastructure services such as transformational proxies. However, the same type of support is lacking for input-centric devices, those that create content and allow users to share content. This lack of infrastructural support makes input-centric devices hard to use and less useful. ...

3 [Applications I: Secure fingerprint-based authentication for Lotus Notes®](#)



Nalini K. Ratha, Jonathan H. Connell, Ruud M. Bolle


October 2001 **Proceedings of the 2001 workshop on Multimedia and security: new challenges MM&Sec '01**

Publisher: ACM Press

Full text available: pdf(731.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#)


Fingerprints have been used to recognize people for several decades. The advent of low cost inkless fingerprint scanners coupled with extra compute power available in client workstations, biometrics in general and fingerprints in particular are being considered for many secure authentication applications. Lotus Notes is a groupware supporting email access and other activities such as calendar management included in it. In this paper, we describe the architecture of a system that integrates bo ...

4 Assurance in life/nation critical endeavors: Biometrics or ... biohazards?

 John Michael Williams

September 2002 **Proceedings of the 2002 workshop on New security paradigms NSPW '02**


Publisher: ACM Press

Full text available:  [pdf\(1.17 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

IPSE DIXIT Biometrics as an array of deployable technologies presumes an elaborate infrastructure, including underlying science that justifies its claims of detection, classification and authentication of individual human identities; particularly of those who are runaways, illegal immigrants, fugitives, criminals, terrorists, and so on. This will now too often be literally a matter of life and death, both for the public and the individuals identified. The "New Security Paradigm" em ...

5 Strategic directions in electronic commerce and digital libraries: towards a digital

 agora


Nabil Adam, Yelena Yesha

December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(244.34 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Application-layer mobility using SIP

 Henning Schulzrinne, Elin Wedlund


July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Supporting mobile Internet multimedia applications requires more than just the ability to maintain connectivity across subnet changes. We describe how the Session Initiation Protocol (SIP) can help provide terminal, personal, session and service mobility to applications ranging from Internet telephony to presence and instant messaging. We also briefly discuss application-layer mobility for streaming multimedia applications initiated by RTSP.

7 I M everywhere: What is chat doing in the workplace?

 Mark Handel, James D. Herbsleb

November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work CSCW '02**

Publisher: ACM Press

Full text available:  [pdf\(627.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We report an empirical study of a synchronous messaging application with group-oriented functionality designed to support teams in the workplace. In particular, the tool supports group chat windows that allow members of a group to communicate with text that persists for about a day. We describe the experience of 6 globally-distributed work groups who used the tool over a period of 17 months. An analysis of use shows that the group functionality was used primarily for bursts of synchronous conver ...

Keywords: MUD, awareness, chat, groupware, instant messaging, presence, teams

8 Security: Zero-interaction authentication



Mark D. Corner, Brian D. Noble

September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking MobiCom '02**

Publisher: ACM Press

Full text available: pdf(273.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Laptops are vulnerable to theft, greatly increasing the likelihood of exposing sensitive files. Unfortunately, storing data in a cryptographic file system does not fully address this problem. Such systems ask the user to imbue them with long-term authority for decryption, but that authority can be used by anyone who physically possesses the machine. Forcing the user to frequently reestablish his identity is intrusive, encouraging him to disable encryption. Our solution to this problem is Zero- ...

Keywords: *cryptographic file systems, mobile computing, stackable file systems, transient authentication*

9 Integrated network computing models, programming modes and software tools



V. K. Murthy, E. V. Krishnamurthy

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing SAC '98**

Publisher: ACM Press

Full text available: pdf(698.60 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

10 Multilateral security a concept and examples for balanced security



Kai Rannenberg

February 2001 **Proceedings of the 2000 workshop on New security paradigms NSPW '00**

Publisher: ACM Press

Full text available: pdf(1.05 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: GSM, mobile communication, multilateral security, negotiation, privacy, protection, reachability management, security management, simulation study

11 User authentication through keystroke dynamics



Francesco Bergadano, Daniele Gunetti, Claudia Picardi

November 2002 **ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 4**

Publisher: ACM Press

Full text available: pdf(351.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Unlike other access control systems based on biometric features, keystroke analysis has not led to techniques providing an acceptable level of accuracy. The reason is probably the intrinsic variability of typing dynamics, versus other---very stable---biometric characteristics, such as face or fingerprint patterns. In this paper we present an original measure for keystroke dynamics that limits the instability of this biometric feature. We have tested our approach on 154 individuals, achieving a F ...

Keywords: Biometric techniques, keystroke analysis

12 Software cultures



Hilda Tellioğlu, Ina Wagner

December 1999 **Communications of the ACM**, Volume 42 Issue 12

Publisher: ACM Press

Full text available: pdf(272.92 KB)

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Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



13 Empirical investigation of the Markov reference model

Vincenzo Liberatore

January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms SODA '99**

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(1.23 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



14 Developing adaptive groupware applications using a mobile component framework



Radu Litiu, Atul Parakash

December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work CSCW '00**

Publisher: ACM Press

Full text available: pdf(168.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A need exists to develop groupware systems that adapt to available resources and support user mobility. This paper presents DACIA, a system that provides mechanisms for building such groupware applications. Using DACIA, components of a groupware application can be moved to different hosts during execution, while maintaining communication connectivity with groupware services and other users. DACIA provides mechanisms that simplify building groupware for domains where users are mobile. New co ...



15 Authentication and authorization: Securing passwords against dictionary attacks



Benny Pinkas, Tomas Sander

November 2002 **Proceedings of the 9th ACM conference on Computer and communications security CCS '02**

Publisher: ACM Press

Full text available: pdf(216.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The use of passwords is a major point of vulnerability in computer security, as passwords are often easy to guess by automated programs running dictionary attacks. Passwords remain the most widely used authentication method despite their well-known security weaknesses. User authentication is clearly a practical problem. From the perspective of a service provider this problem needs to be solved within real-world constraints such as the available hardware and software infrastructures. From a user' ...



16 Special session on security on SoC: Securing wireless data: system architecture challenges




Srivaths Ravi, Anand Raghunathan, Nachiketh Potlapally

October 2002 **Proceedings of the 15th international symposium on System Synthesis ISSS '02**

Publisher: ACM Press



Full text available:  [pdf\(172.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Security is critical to a wide range of current and future wireless data applications and services. This paper highlights the challenges posed by the need for security during system architecture design for wireless handsets, and provides an overview of emerging techniques to address them. We focus on the computational requirements for securing wireless data transactions, revealing a gap between these requirements and the trends in processing capabilities of embedded processors used in wireless h ...

Keywords: 3DES, AES, DES, IPSec, RSA, SSL, WTLS, decryption, design methodology, embedded system, encryption, handset, mobile computing, performance, platform, security, security processing, system architecture, wireless communications

17 Reflection as a mechanism for software integrity verification



Diomidis Spinellis

February 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(85.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The integrity verification of a device's controlling software is an important aspect of many emerging information appliances. We propose the use of reflection, whereby the software is able to examine its own operation, in conjunction with cryptographic hashes as a basis for developing a suitable software verification protocol. For more demanding applications meta-reflective techniques can be used to thwart attacks based on device emulation strategies. We demonstrate how our approach can be ...

Keywords: cryptographic hash function, embedded device, message digest

18 Problems with DCE security services



Gregory White, Udo Pooch

October 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(479.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Distributed computing is receiving an ever increasing amount of interest and with it come many challenges, not the least of which is how to maintain system and network security. Issues relating to user authentication, access authorization, and communication security must be addressed when multiple, heterogeneous systems are connected. While these issues have been addressed in OSFs DCE, several problems remain. This paper describes some of these problems.

19 P6: Document-based inter-organizational information exchange



Reinhard Riedl

October 2001 **Proceedings of the 19th annual international conference on Computer documentation SIGDOC '01**

Publisher: ACM Press

Full text available:  [pdf\(217.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present our research work on document services for interstate e-government carried out in the FASME project. First, we depict the background for our research and we describe its basic challenges. Then we discuss the required services out of the perspective of inter-organizational document services and documentation issues. From the evaluations of our prototypical implementation with user groups, we may

conclude that interstate e-government services are feasible and that life w ...

Keywords: e-government, inter-organizational work-flows

20 Software security and privacy risks in mobile e-commerce



Anup K. Ghosh, Tara M. Swaminatha

February 2001 **Communications of the ACM**, Volume 44 Issue 2

Publisher: ACM Press

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1 [Applications I: Secure fingerprint-based authentication for Lotus Notes®](#)



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2 [Response to "Problems with DCE security services"](#)



Walter Tuvell

April 1996 **ACM SIGCOMM Computer Communication Review**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(1.01 MB) Additional Information: [full citation](#), [index terms](#)

3 [User authentication through keystroke dynamics](#)



Francesco Bergadano, Daniele Gunetti, Claudia Picardi

November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(351.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

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Keywords: 3DES, AES, DES, IPSec, RSA, SSL, WTLS, decryption, design methodology, embedded system, encryption, handset, mobile computing, performance, platform, security, security processing, system architecture, wireless communications

8 Authentication and authorization: Securing passwords against dictionary attacks



Benny Pinkas, Tomas Sander

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10 Strategic directions in electronic commerce and digital libraries: towards a digital agora



Nabil Adam, Yelena Yesha

December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: pdf(244.34 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Computer security: A conceptual framework for testing biometric algorithms within operating systems' authentication



Arslan Brömme, Marcel Kronberg, Oliver Ellenbeck, Oliver Kasch

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**

Publisher: ACM Press

Full text available: pdf(675.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a conceptual framework for testing the implementation of biometric algorithms within Unix and Windows NT/2000 operating systems' login authentication. To support the analysis and evaluation of biometric algorithms, a data logging module will be used, enabling the collection of quantitative data, e.g. timestamps, biometric raw data, (pre)processed data, and return codes from each run of a biometric authentication. It is

shown how biometric algorithms and a data logging module ...

Keywords: biometric authentication, evaluation, operating system, robustness, testing biometric algorithms

12 Reflection as a mechanism for software integrity verification



Diomidis Spinellis

February 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 1

Publisher: ACM Press

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13 Integrated network computing models, programming modes and software tools



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February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing SAC '98**

Publisher: ACM Press

Full text available: pdf(698.60 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

14 Application-layer mobility using SIP



Henning Schulzrinne, Elin Wedlund

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Publisher: ACM Press

Full text available: pdf(1.34 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

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15 P6: Document-based inter-organizational information exchange



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From the evaluations of our prototypical implementation with user groups, we may conclude that interstate e-government services are feasible and that life w ...

Keywords: e-government, inter-organizational work-flows

16 Making computers disappear: appliance data services



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Digital appliances designed to simplify everyday tasks are readily available to end consumers. For example, mobile users can retrieve Web content using handheld devices since content retrieval is well-supported by infrastructure services such as transformational proxies. However, the same type of support is lacking for input-centric devices, those that create content and allow users to share content. This lack of infrastructural support makes input-centric devices hard to use and less useful. ...

17 Security: Zero-interaction authentication



Mark D. Corner, Brian D. Noble

September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking MobiCom '02**

Publisher: ACM Press

Full text available: pdf(273.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Laptops are vulnerable to theft, greatly increasing the likelihood of exposing sensitive files. Unfortunately, storing data in a cryptographic file system does not fully address this problem. Such systems ask the user to imbue them with long-term authority for decryption, but that authority can be used by anyone who physically possesses the machine. Forcing the user to frequently reestablish his identity is intrusive, encouraging him to disable encryption. Our solution to this problem is Zero- ...

Keywords: *cryptographic file systems, mobile computing, stackable file systems, transient authentication*

18 I M everywhere: What is chat doing in the workplace?



Mark Handel, James D. Herbsleb

November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work CSCW '02**

Publisher: ACM Press

Full text available: pdf(627.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We report an empirical study of a synchronous messaging application with group-oriented functionality designed to support teams in the workplace. In particular, the tool supports group chat windows that allow members of a group to communicate with text that persists for about a day. We describe the experience of 6 globally-distributed work groups who used the tool over a period of 17 months. An analysis of use shows that the group functionality was used primarily for bursts of synchronous conver ...

Keywords: MUD, awareness, chat, groupware, instant messaging, presence, teams

19 Trusted products evaluation



Santosh Chokhani

July 1992 **Communications of the ACM**, Volume 35 Issue 7

Publisher: ACM Press

Full text available: [pdf\(4.09 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: TCSEC, covert channel analysis, integrity, security, trust

20 Role-based access control on the Web using Java



Luigi Giuri

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control RBAC '99**

Publisher: ACM Press

Full text available: [pdf\(729.08 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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Kounoudes, A.; Kekatos, V.; Mavromoustakos, S.;
[Information and Communication Technologies, 2006. ICTTA '06. 2nd](#)
Volume 1, 24-28 April 2006 Page(s):1020 - 1025
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The cryptographic key **split** combiner of claim 1, wherein said plurality of key **split** generators includes a **biometric split** generator for generating a ...
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The **minutiae** are **characteristic** points or shapes, etc., of the fingerprint lines, matrix A is **split** into orthogonal matrix T and diagonal matrix D, ...

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et al: [11] have proposed to **combine biometric** data. (e:g, voice) with non-biometric data (e:g: most prominent ridge **characteristics**, called **minutiae**, ...

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Encryption process including a **biometric** unit

US Pat. 7111173 - Filed Sep 1, 1999 - Tecsec, Inc.

The method of claim 11, further comprising selecting should be to **combine** labels representing a mandated com- the at least one label **split** from at least one ...

Method and apparatus for providing a software agent at a destination host

US Pat. 7010810 - Filed Mar 29, 2001 - Litton Industries, Inc.

A piece of mobile software called a software agent is **split** into an executable code unit ... challenge and response encryption, **biometric** identification, ...

Method and an apparatus for the simultaneous determination of surface ...

US Pat. 7246905 - Filed Jul 18, 2003

... apertures 20 are pro- In order to **combine** the two measuring methods,

Biometric data allow the respect to form and curvature in local coding, ...

split biometric combine

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